# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/05/2019 11:05 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/02/2019 10:47 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125345 | 0 | 1.97 | 125408 | 1.94 |
| Blue | F | SSC | 125000 | 123906 | -1 | 3.37 | 124723 | 3.27 |
| Blue | E | FITC | 16694 | 16643 | -1 | 3.62 | 386 | 21.67 |
| Blue | D | PE | 32792 | 32380 | -2 | 2.85 | 714 | 16.64 |
| Blue | B | PerCP-Cy5-5 | 44451 | 44087 | -1 | 4.62 | 1215 | 24.08 |
| Blue | A | PE-Cy7 | 33645 | 33656 | 0 | 7.39 | 614 | 50.14 |
| Red | C | APC | 47008 | 46453 | -2 | 2.92 | 1798 | 13.45 |
| Red | A | APC-Cy7 | 32298 | 31668 | -2 | 2.88 | 794 | 14.19 |
| Violet | B | V450 | 8961 | 8660 | -4 | 4.50 | 610 | 13.57 |
| Violet | A | V500 | 32726 | 31624 | -4 | 4.29 | 791 | 11.43 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20780 | 5.24 | 614 | 1 | N/A | N/A | Pass |
| Blue | F | SSC | 56150 | 3.04 | 585 | 17 | N/A | N/A | Pass |
| Blue | E | FITC | 65 | 74.13 | 571 | 8 | 0.0167 | 224 | Pass |
| Blue | D | PE | 142 | 58.69 | 575 | 9 | 0.1266 | 296 | Pass |
| Blue | B | PerCP-Cy5-5 | 222 | 58.32 | 679 | 8 | 0.0066 | 38 | Pass |
| Blue | A | PE-Cy7 | 117 | 127.62 | 735 | 9 | 0.0081 | 28 | Pass |
| Red | C | APC | 410 | 29.21 | 614 | 1 | 0.0191 | 164 | Pass |
| Red | A | APC-Cy7 | 196 | 32.43 | 585 | 0 | 0.0046 | 1244 | Pass |
| Violet | B | V450 | 135 | 40.74 | 488 | 2 | 0.0310 | 1657 | Pass |
| Violet | A | V500 | 123 | 34.88 | 498 | 2 | 0.0174 | 748 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.31 | -32.02 | 1.04 |
| Blue | 20.35 | 16.27 - 24.41 | 1.27 | 0.99 - 1.49 | 0.00 | 0.00 | 1.48 |
| Red | 16.37 | 13.60 - 20.40 | N/A | N/A | 29.12 | 29.54 | 1.23 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9556

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments